

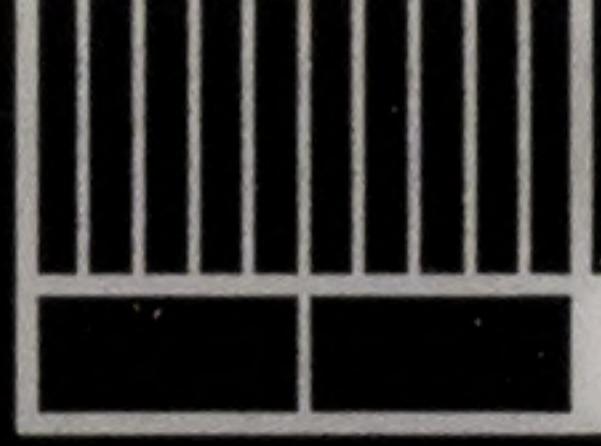
GEORGE ENGELMANN  
BOTANICAL NOTEBOOKS

*Pagination Note:*  
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49

*E. Indica* Lam

388-9



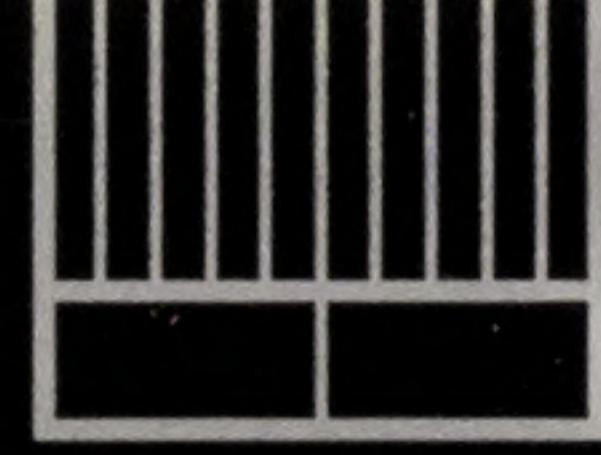
0 1 2 3 4 5 6 7 8 9 10

cm

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BOTANICAL  
GARDEN



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3 IRVING  
1913 LEADING

• 18. October.  
18. October 1818.



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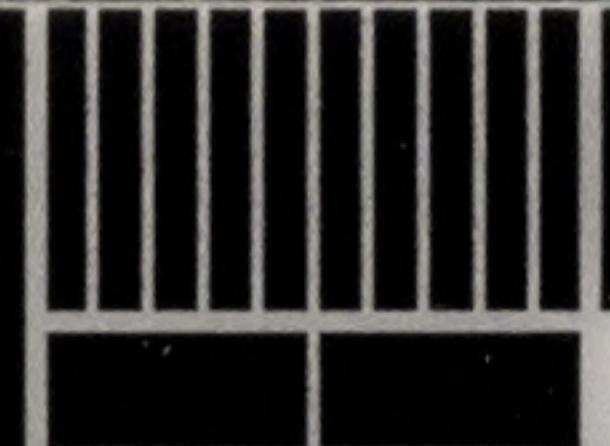


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~~George Engelmann  
to now - 1880~~



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*Ceph. Madagascariensis* n. sp.  
Madagascar. 1866-68. Boivin  
D. J. Webb H. M. Webb

dam  
= Lindia foliata Engl. 

Schreyer Abyssin. 1284 is  
identic.

perenn; erect; a basi ramosa  
pedalis glabratissima anguste  
foli ovato - oblongis vel oblongis  
obtusis, sub oppositis versus  
apic semilatis superciliis  
integris, supra glabri saltus  
parce pilosis? glabratissis,  
rubro - venosis; pellucido -  
purpureis, s. opacis  
stipulis lat. trianguletis  
ciliatis  
ramis apic fili paucis  
foliis paucis bracteis  
fornit obliteris,  
f. paucis paucis terminalibus  
anth. late capillatis  
appendic. albi orbiculatis  
majoribus s. minoribus obtusis  
f. emarginatis - ped. ~~ang.~~ den  
cups glabri. a pilosulis exsertis



0 1 2 3 4 5 6 7 8 9 10  
cm

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too near *Hyperb. pli*?

In Mauritius there is a second  
form: with more hairy on  
intertedious pubescence  
and pubescent capsule

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Y 2  
2nd sp. of *Hyperb. pli*  
with more hairy  
and pubescent capsule



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cm

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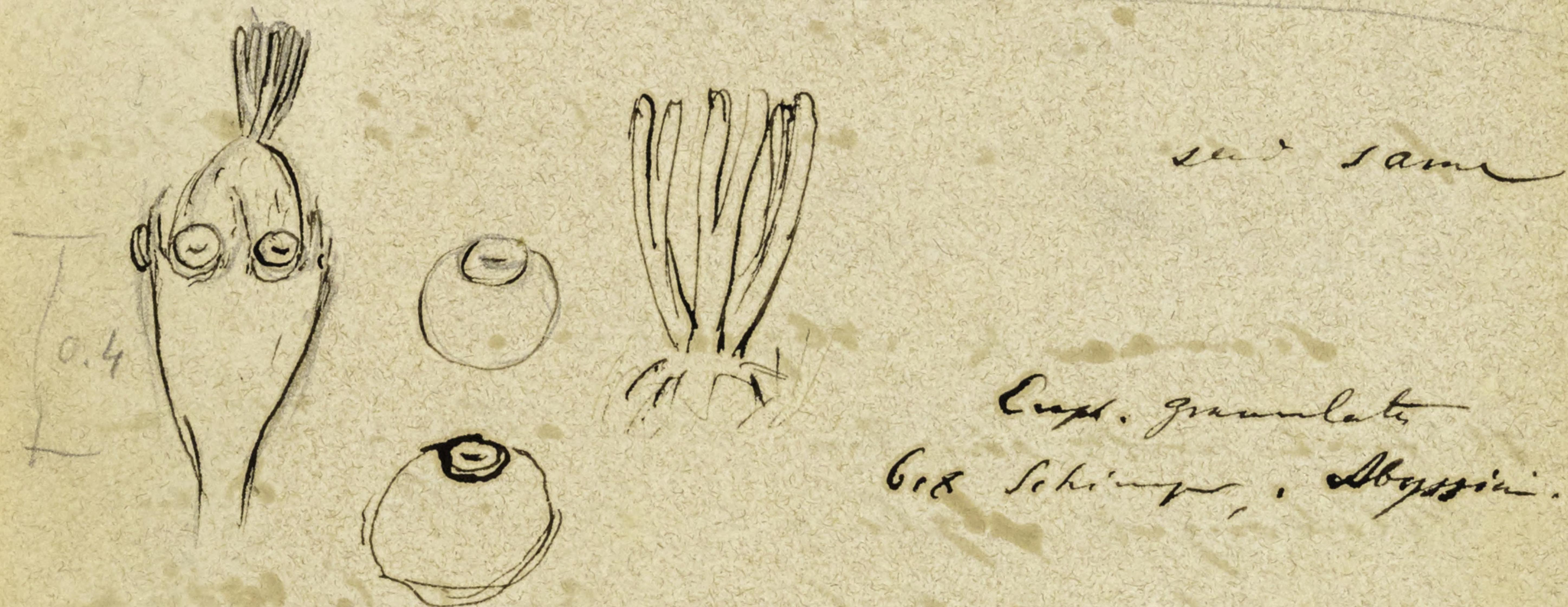
39

E. India Lam  
for Bons

Hippocrate

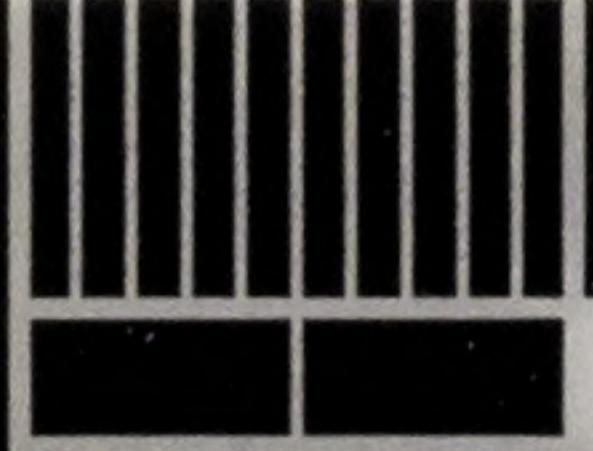


"Euph. hippocastanum"  
324 Kolosch, Semnan.



Eup. granulata  
618 Schinz, Abyssin.

*Anuva patula* caeruleo-pubescent  
foliis e basi obliquis ovato-oblongis  
obtusis, <sup>s. acutiusculis</sup> minime serratis, crenatis  
a superiori subnudis integris rufis  
stipulis. Basi late crenatis subnudis  
fieri, pubescens <sup>capitatis multifloro</sup>  
authoris - glomerulas pedunculatas  
laterales, planas aphyllas  
foliis que basides congestis  
involutis primis capituli late



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cm

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albo - appressed, ult. rufus  
brown appressed!

appendicis orbiculatis, guttatis  
glabellis pallidifloris (vix  
vaginifloris)

pubescentibus

(capitulis paucis) domo subtilijs

styli erectis fascibus fore ad  
med. - bifidis

seminalis vorticis vix ampliis  
fructuosa undulatis, oblongis

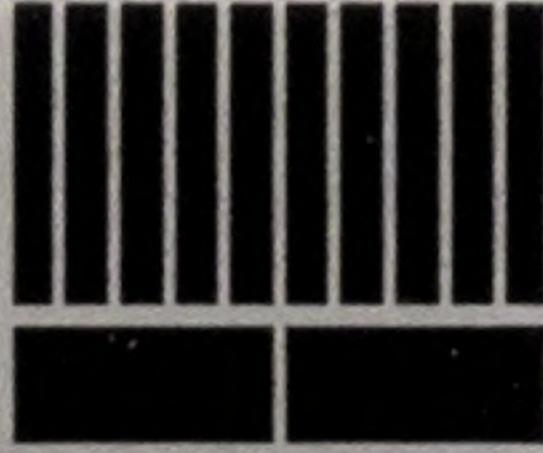
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Sennar & Abyssinia.

the first with shorter, the latter with a  
little longer styles - no other difference  
leaves 6 - 10 l. long 3 - 5 l. wide,  
obliquely serrate;

some of heads 3 - 4 l. diameter or  
petioles 2 or 3 l. long; - ~~appressed~~  
involucres which open first, have  
broad white wings appressed  
the last ones very small & transversely  
greenish ones! - invol. itself  
about 0.4 l. long; seed 0.5 l. long  
dirty red brown or blackish. -  
Intermedius like. pallidiflora & hyperborea.



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cm

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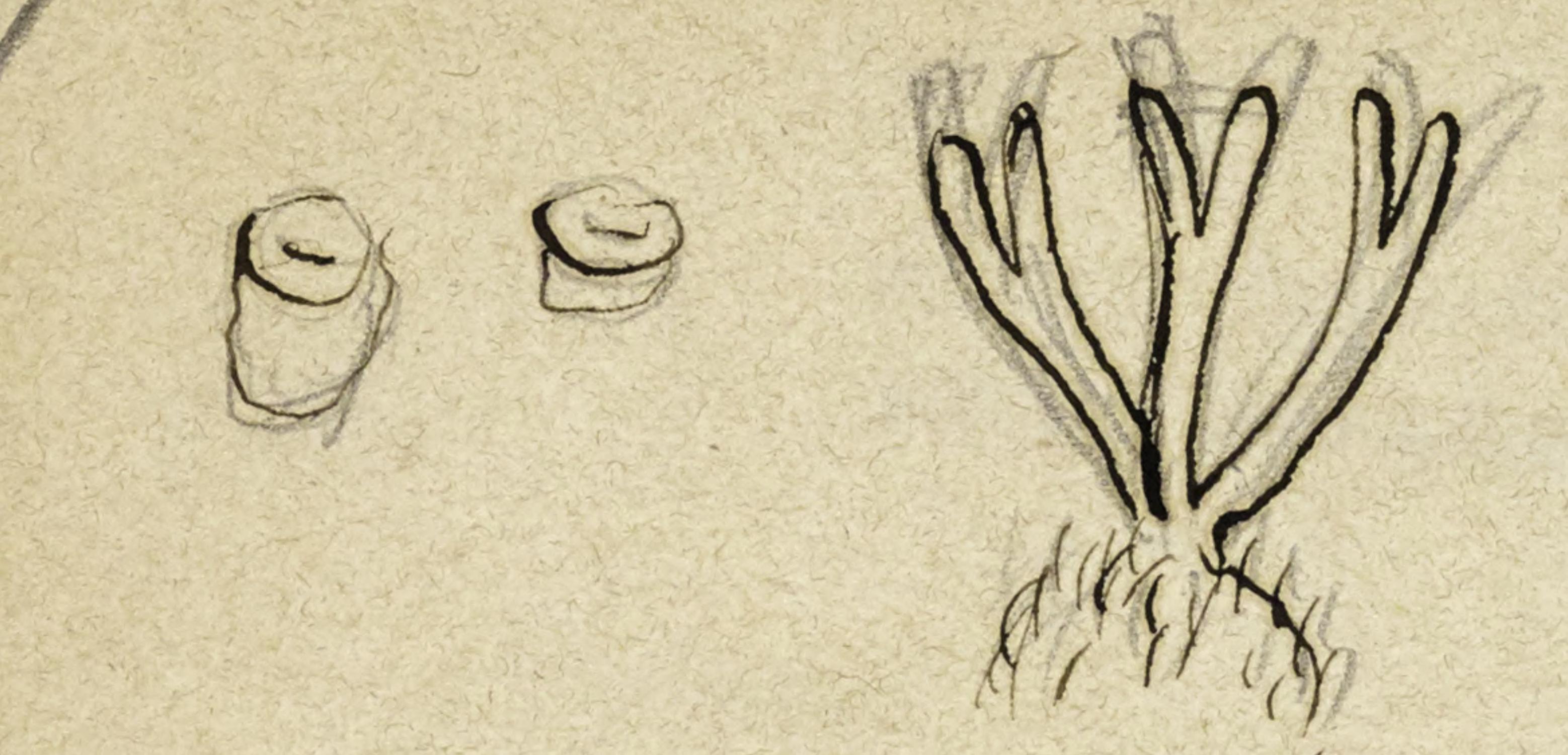


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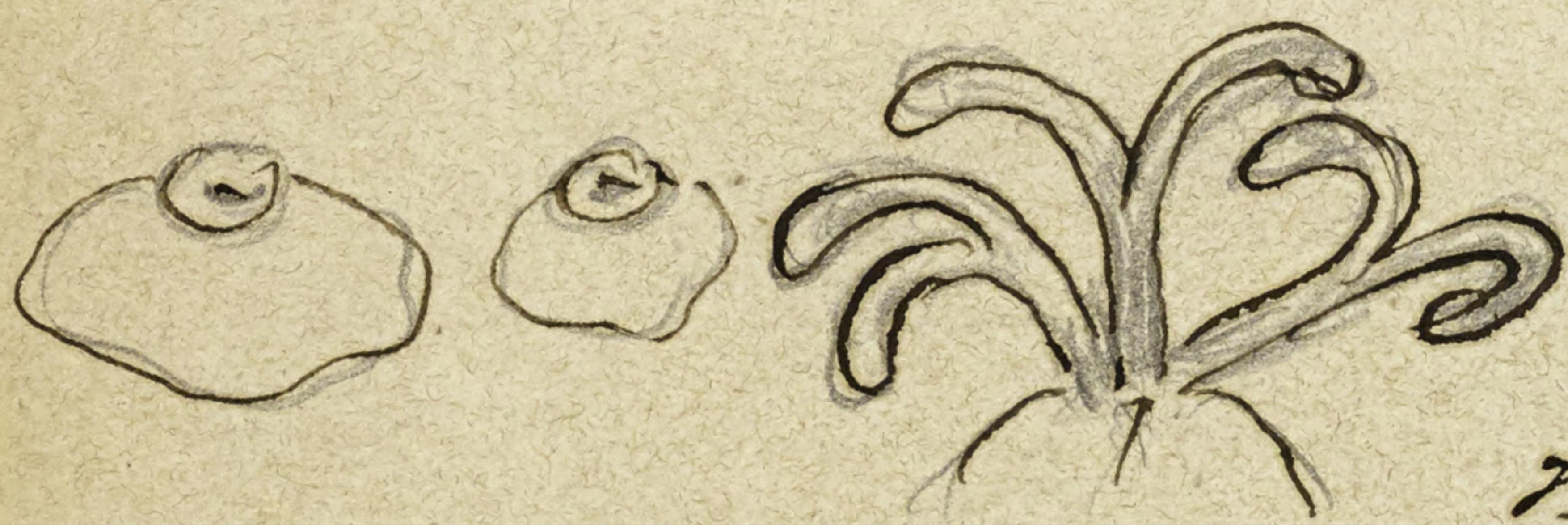
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Hyper

N. 907 Schimp.  
908 Hydrostomopsis  
" E. hyperifolia  
" van. foliosa "

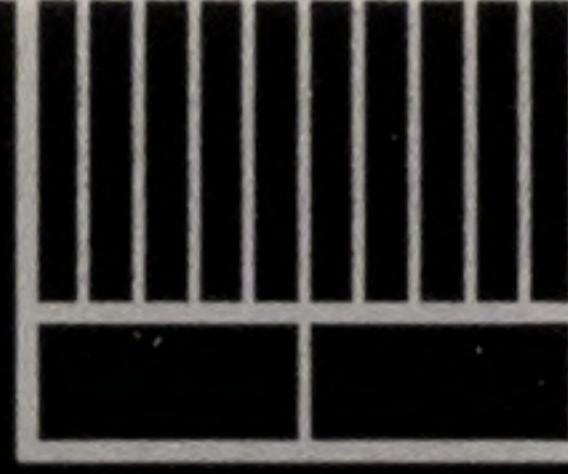


N. 757 Schimp.  
Padua, Andre  
" E. hyperifolia "



N. 1632 Schimp.  
" Euph. hyperifolia "  
" 1632 " glabrum Mayr.

The two former plants are very similar to the plate from Seminaar, except the same, though at least the same a little less gray; but pubescent capsule style a little longer but the last, N. 1632 is a large smooth erect plant; leaves  $1\frac{1}{4}$ - $1\frac{3}{4}$  inch long  $\frac{1}{2}$ - $\frac{3}{4}$  inch wide; heads small, but lax; styles long, round and capsule smooth — seed tan in all.



0 1 2 3 4 5 6 7 8 9 10  
cm


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cm

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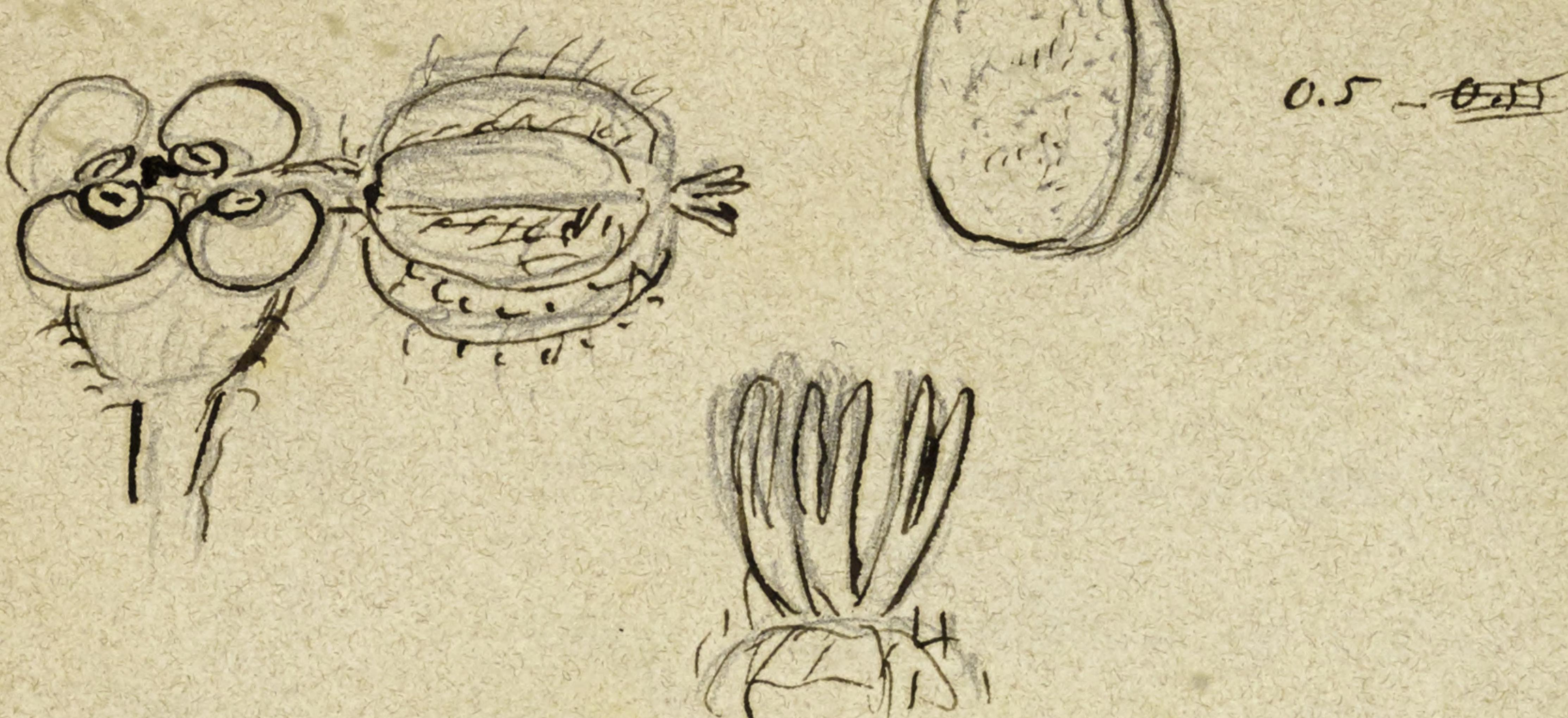


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50

Euphorbia congener Blume  
2151 Jollinger Java  
- Herbg Park

Ovule long. 50



0.5 - 0.6

annae continens rami  
divaricatis virgatis, fol. ovatis seu  
oblongis pilosulis obtusis seminatis  
s. acuminatis glaucores vel br.  
glomerulis dense floribus breviter  
pedicellatis apphyllis, laterali tig;  
involucris sub-acute s. petiis compa-  
nulatis, phloesis; glandulis late  
orbiculato - appressedatis, lobis  
triangulari ciliatis  
style erectis ovario <sup>racemis</sup> nullo  
brevior tig.  
capsula pilosa  
sem. iles ovatis acute angu-  
lates orbeatis vix leonis  
undulatis s. tuberculatis.  
(laterales convexis) papillae primi  
crescentes



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cm

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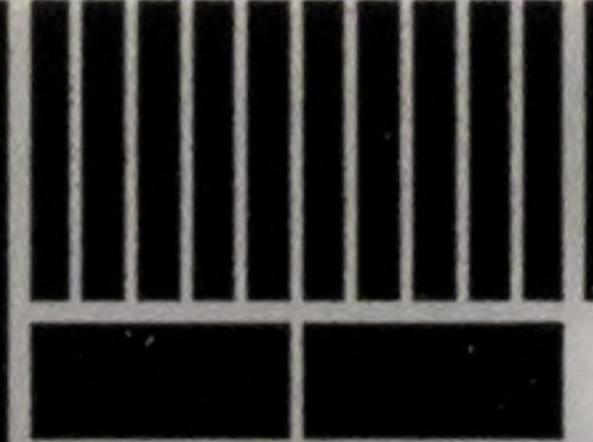
looks like an abyssinian *Echegenia*  
but is with distinguished by the  
inflorescence and especially  
by the pale almost smooth  
seeds —

Intermediate form belongs to  
*E. decurrens* probably but  
speculiar in want of the short  
style, smooth seeds —

6890

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~~way to Jersey back just  
over to the same with~~



0 1 2 3 4 5 6 7 8 9 10  
cm

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35. var 51 *E. densiflora* Chap  
glabra



seen fulvis!

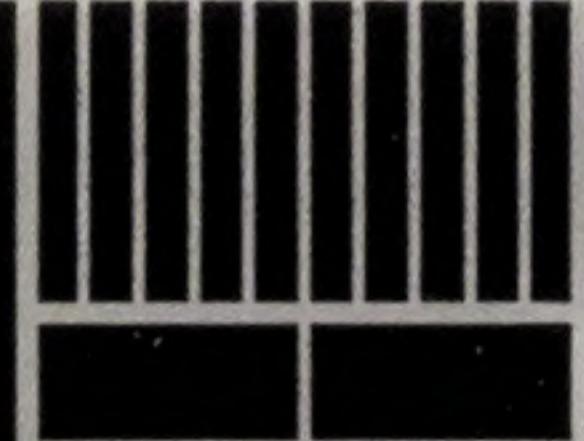
mention the same styles etc

Acc 275 Venezuela 1185  
Further spec has more  
appendages on styles, long,  
divaricating to the base



Acc 275 further  
Venezuela

mention  
Porto Rico, styles same  
as Chapman,  
but appendages large  
small or none  
in same glomerule.



0 1 2 3 4 5 6 7 8 9 10

cm

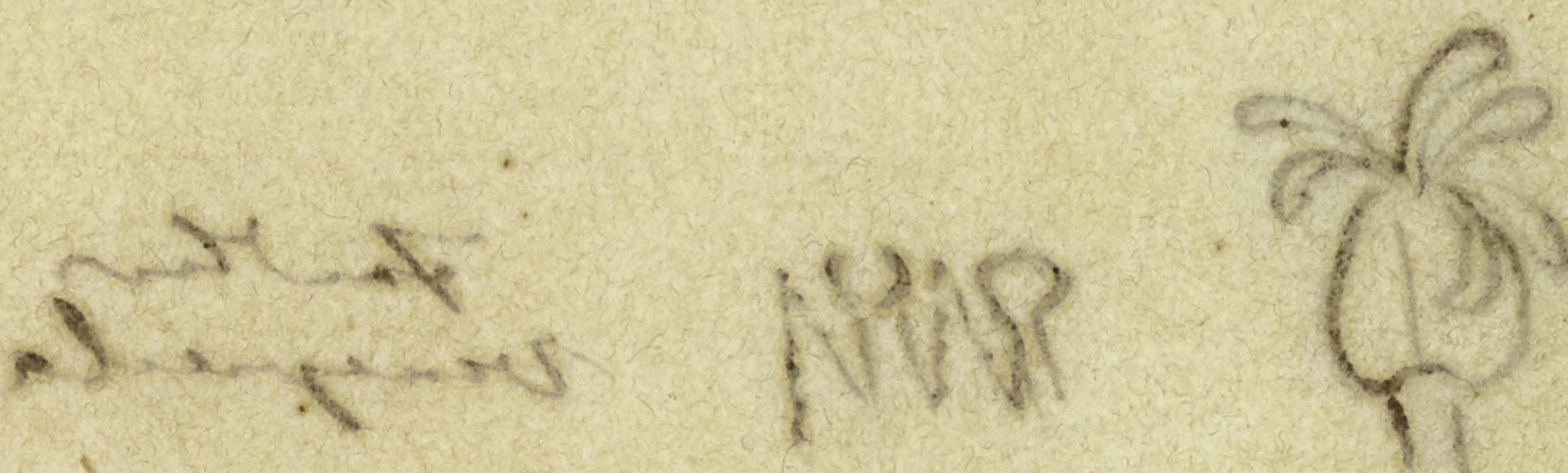
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cm

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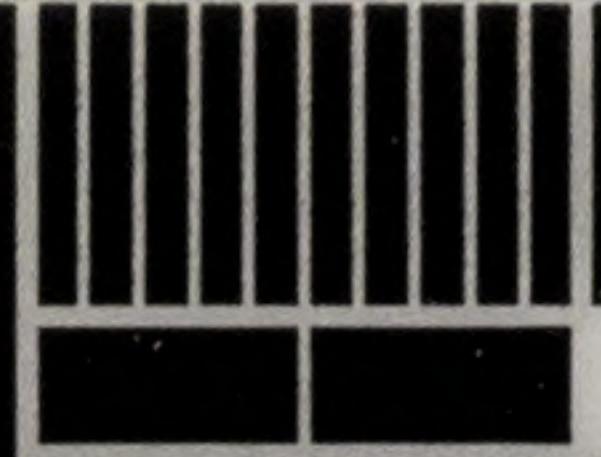
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GARDEN

52

*E. hyperboreus*

(*E. Prostřík* Griseb. Andr.)

392-4056



0 1 2 3 4 5 6 7 8 9 10

cm

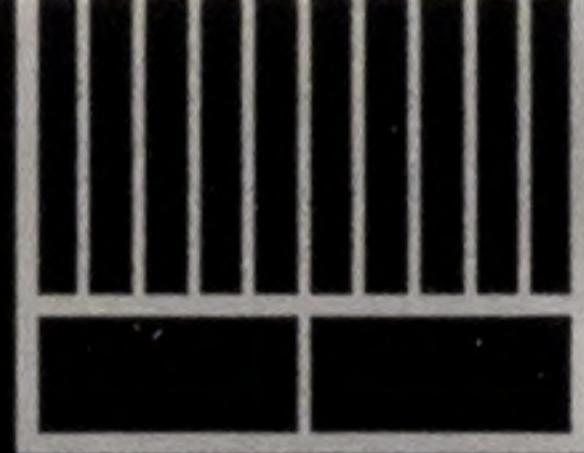
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cm

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"*Cap. subserrata*," Pennsylv. Bucklebury

Seed oval, acute - angled, 0.55 l. by  
transverse undulate - tuberculate,  
black = *P. hyperbolioides*.

Smooth. glab. downy fls.

*Glandulic. undi. panic.*  
*Stylis ad undi. bifidis, ramis*  
*Divaricatis revolutis, omn. aeg.*  
*s. serpentis*

A small form of *E. hyperbolioides*  
with small leaves and small  
inappressed flowers —  
plant nearly smooth.



0 1 2 3 4 5 6 7 8 9 10  
cm

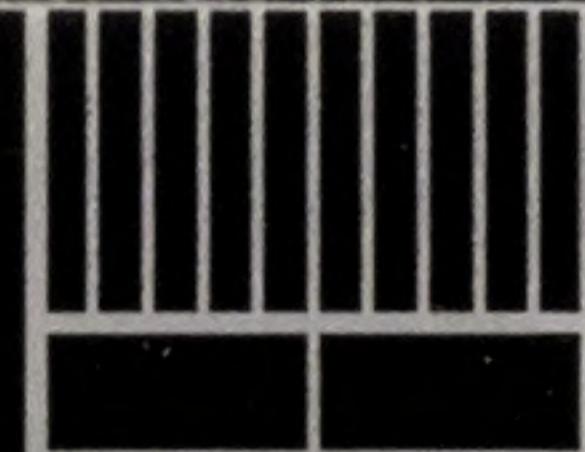
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cm

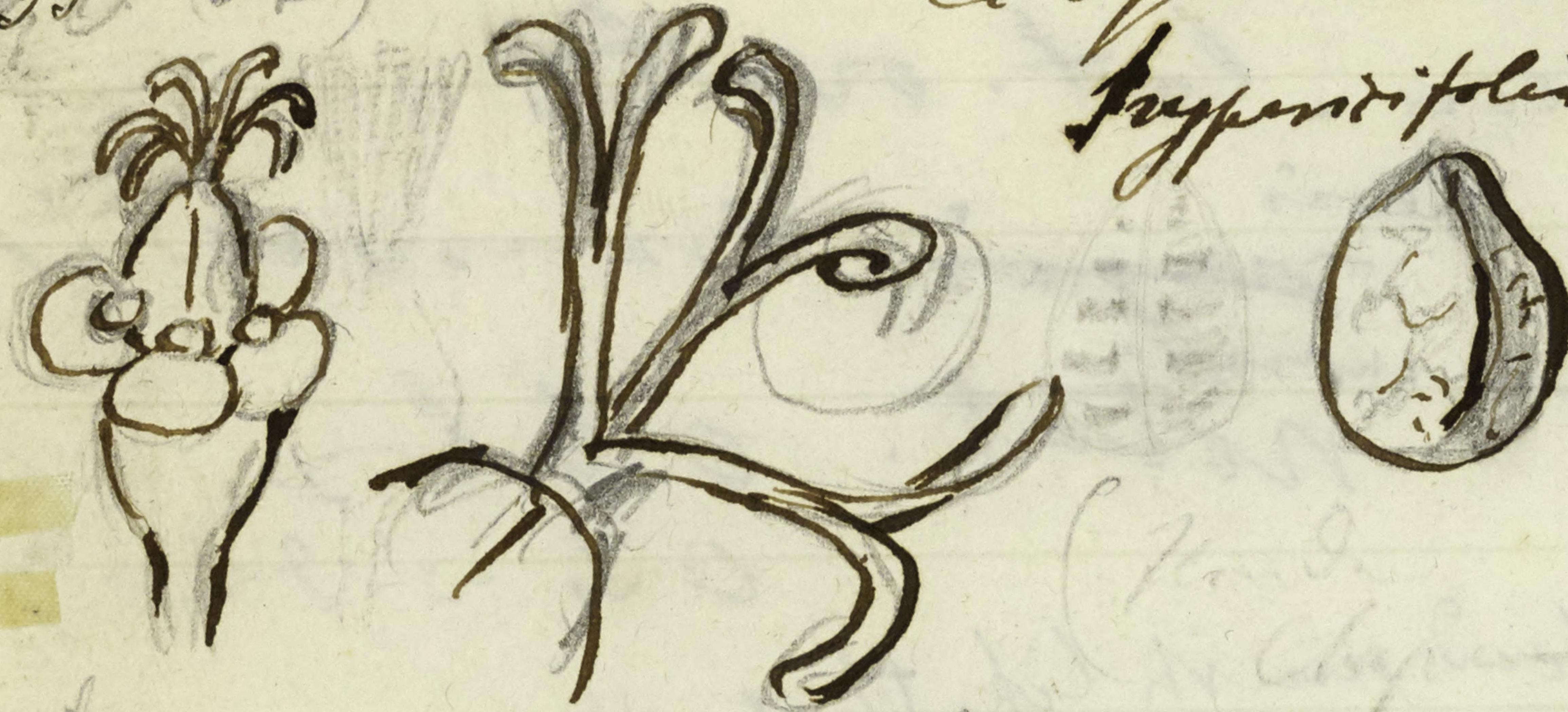
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25 (22)<sup>2</sup>.

*E. cymulosa*  
*hypertifolia*



stems 1-1½' ab. glabrous  
foliis e basi obliqua cordata  
lanceolatis & basi triangulari  
acute serratis  
stipulis triangulari ciliatis  
~~pedicellis petiolaris~~  
~~involutis petiolaris~~  
pedicellis petiolum longe  
superantes involucro subaequ.  
glandis 4 late abso  
pedicellis marginatis  
lobis triangulari subaequatis  
styli ad meo-lopant  
stipe ~~filif.~~ l. l. l.  
cap. obtusangularis

ovis



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cm

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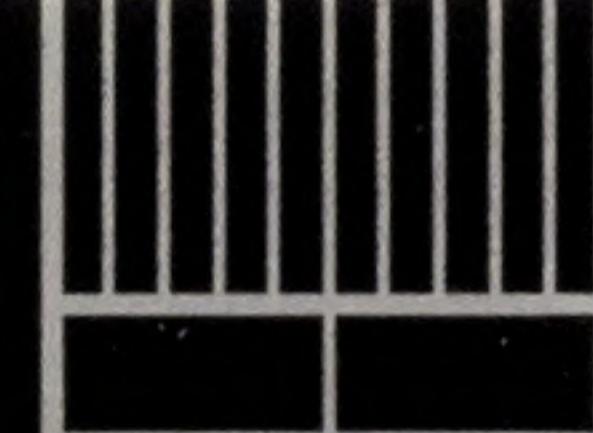
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3  
~~seed~~ lat. oval.  
 siliis  
~~magno~~ transversi  
 prop. ~~ovata~~  
 Notat. 0.6 mm.  
 0.4 wide  
 seed much like that of  
 flr. ~~gymnosperma~~  
 longe pedunculata

*E. gymnosperma*?

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0 1 2 3 4 5 6 7 8 9 10

cm

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35

fr. *happenifolia* St Louis



— 1888 '3



0 1 2 3 4 5 6 7 8 9 10

cm

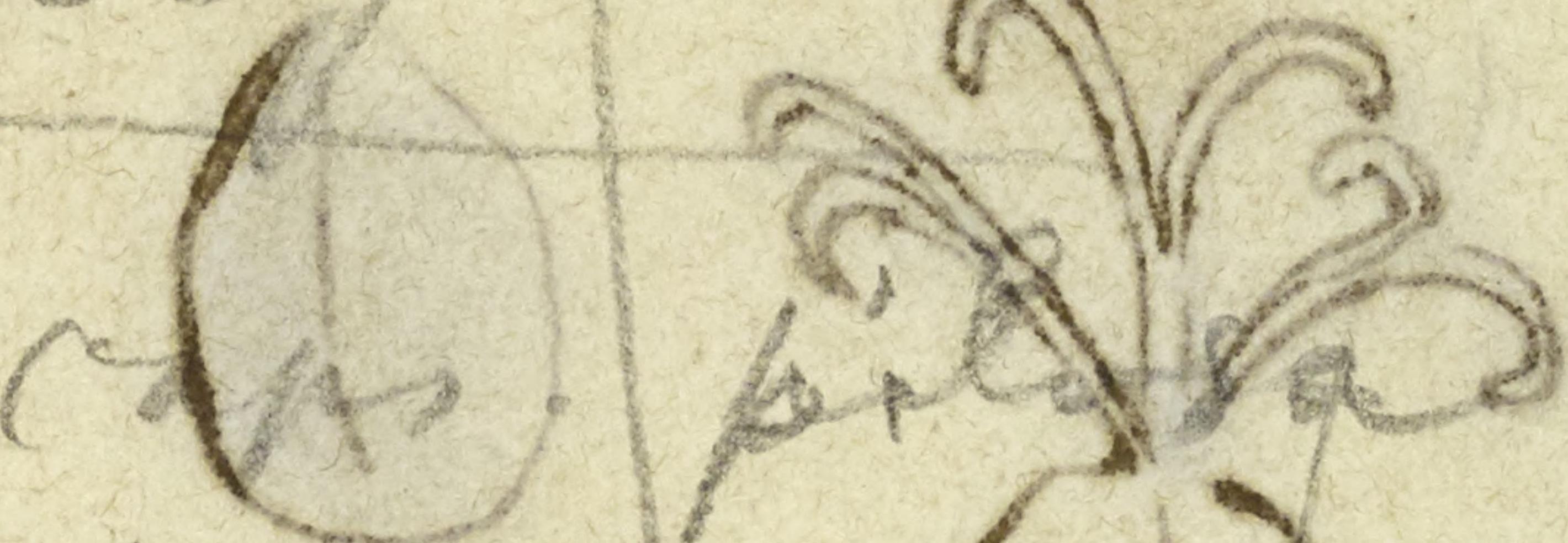
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E. oligodon

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stem 0.4 x 0.2 cm

very slightly angled  
with opposite sides

glab <sup>strongly</sup> pubescens 2-3 bls  
pub. - - - - - 1.78.  
glab - - - - - H. glaberrima - 5.9, 10.  
willow

glab -

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cm

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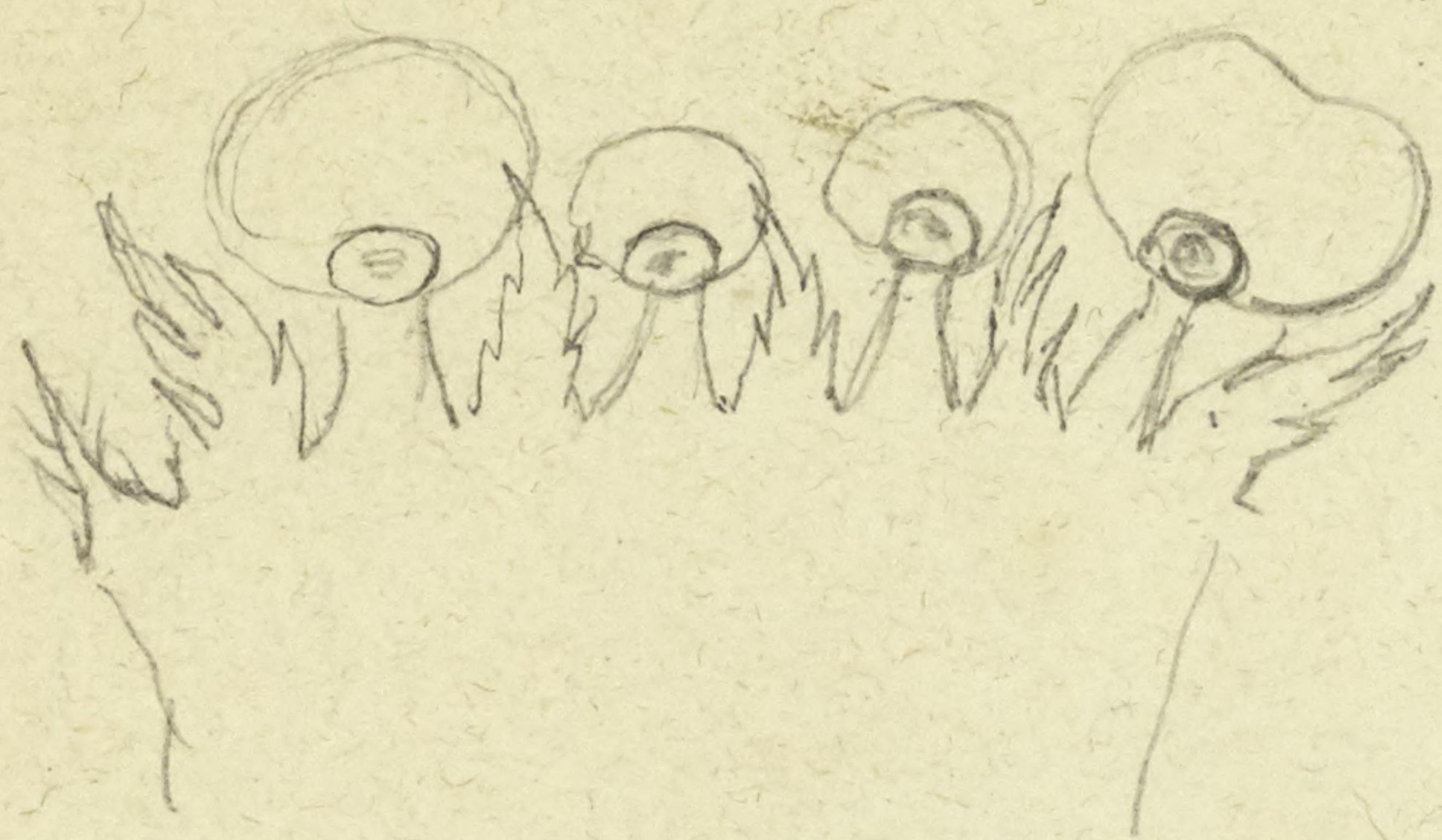


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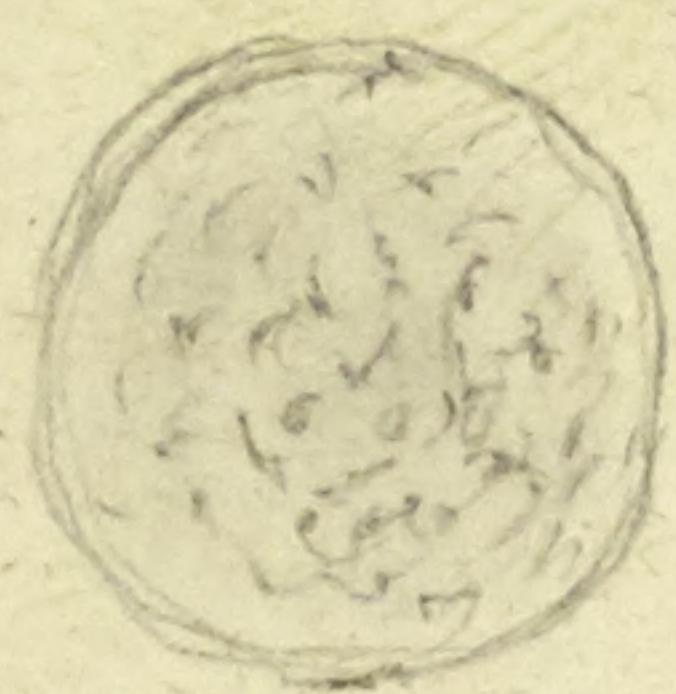
52 *E. hyperborei*

petaloid form

Sept 1860



$\times 412$



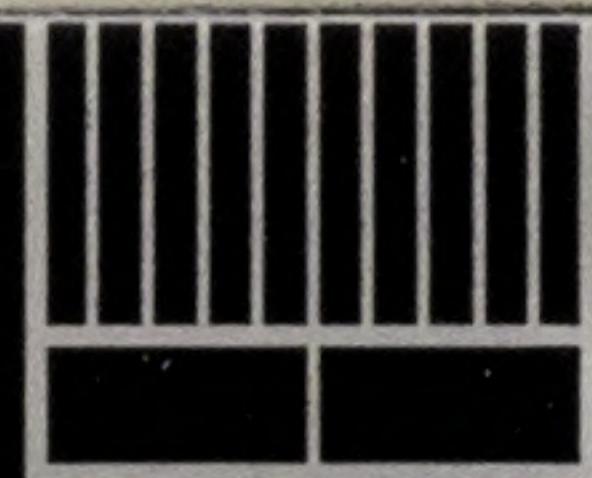
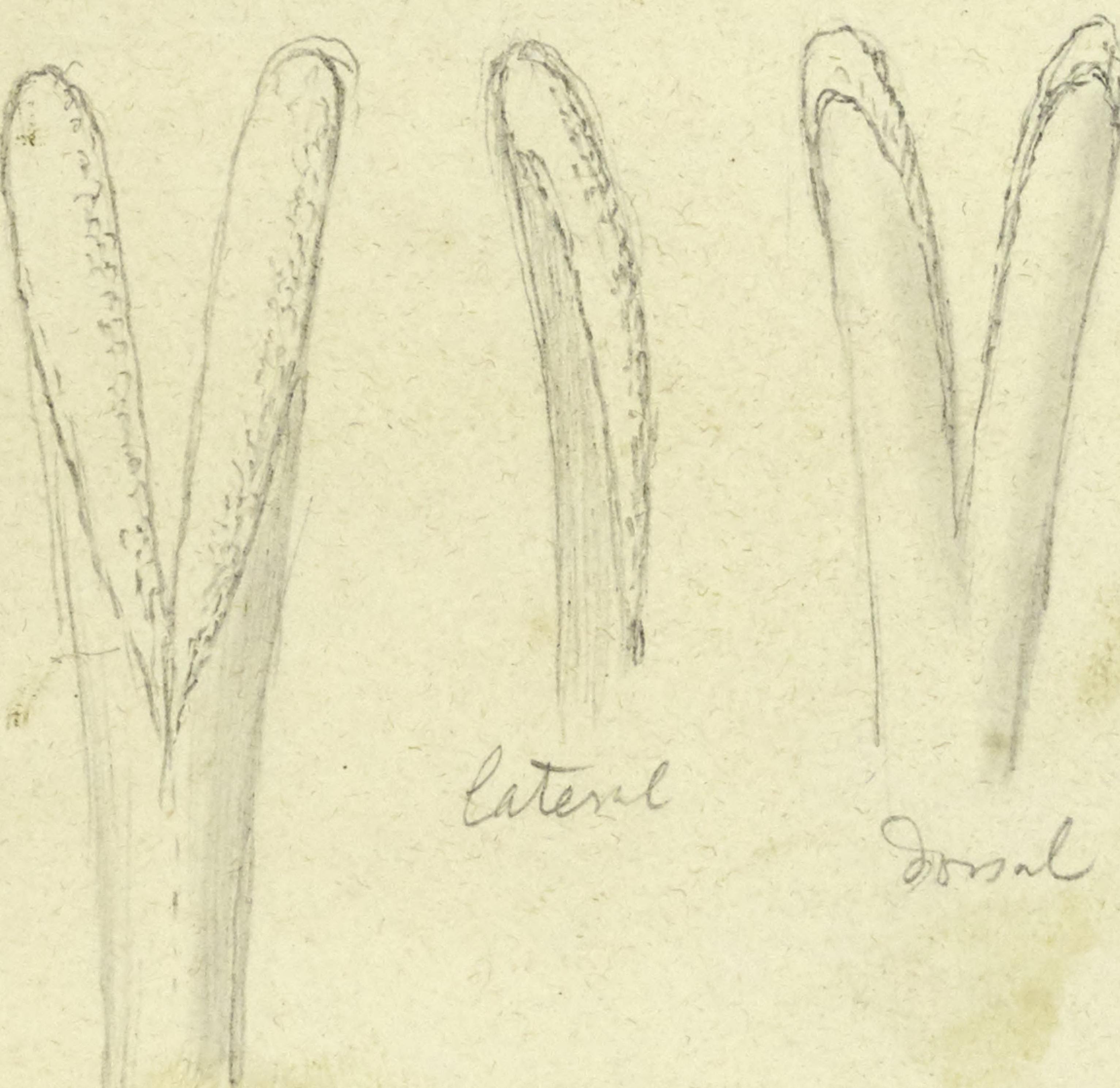
$5 \text{ lin} = 0.012 \text{ lin}$

$\frac{412}{5}$

inner side  
of stigmas

$\times 60$

style & stigma of a young style



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cm

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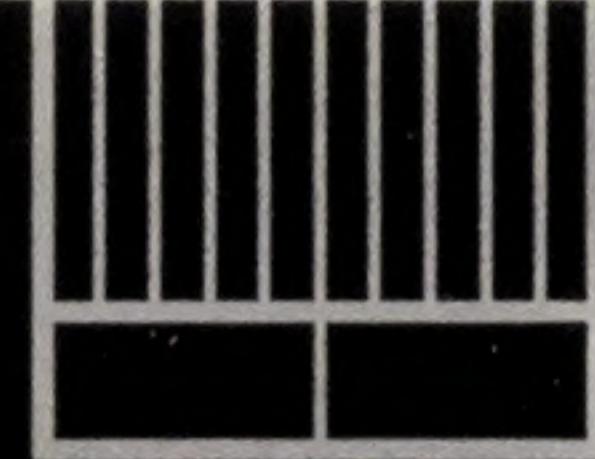


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6896

ALEX. LEITCH,  
APOTHECARY & CHARMAGEUTIST,  
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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0 1 2 3 4 5 6 7 8 9 10

cm

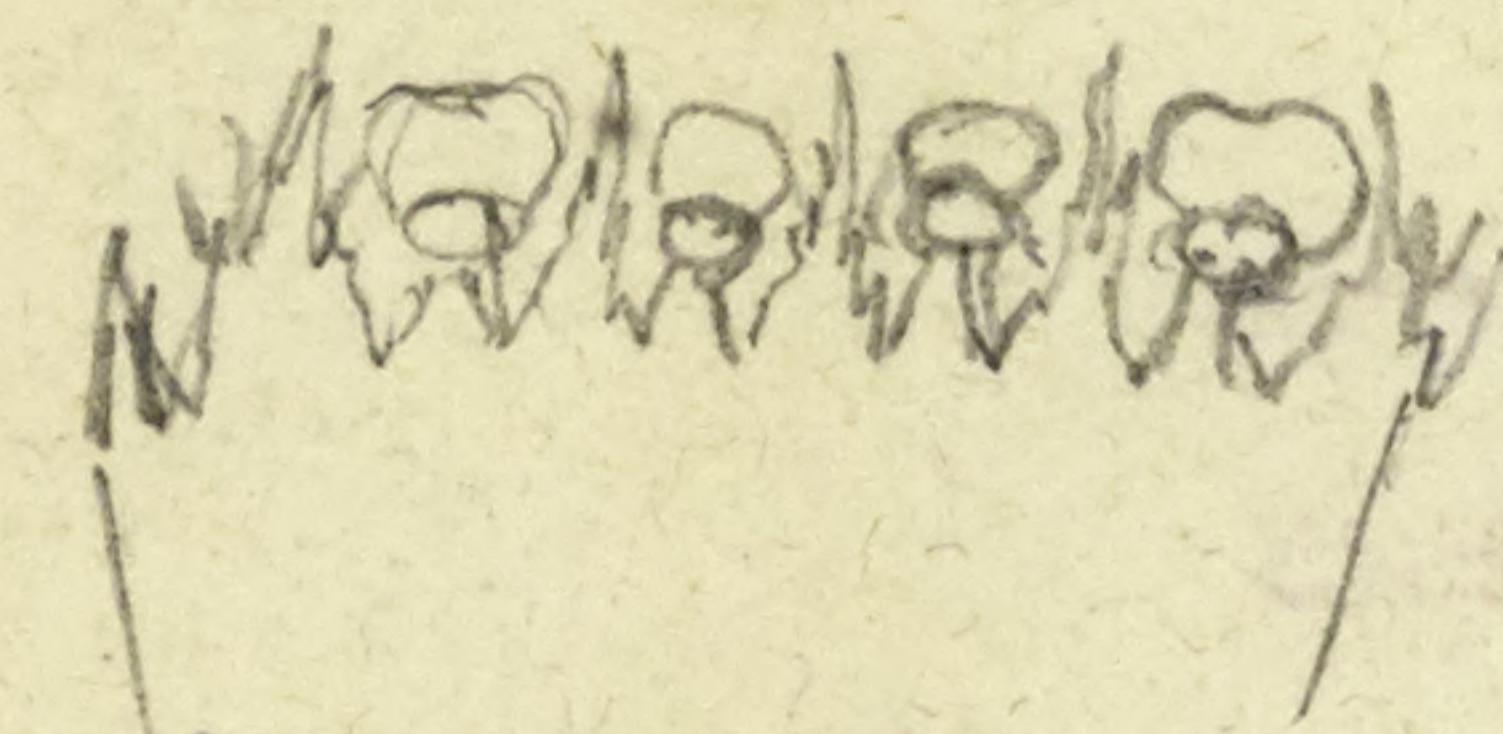
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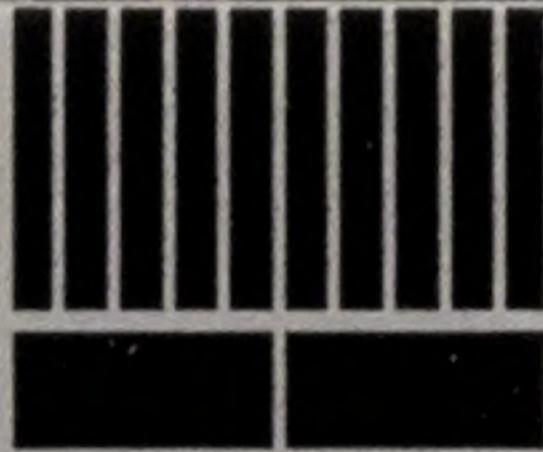
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52 *C. hyperbifolia*

Sept 1860



appendages smaller



0 1 2 3 4 5 6 7 8 9 10

cm

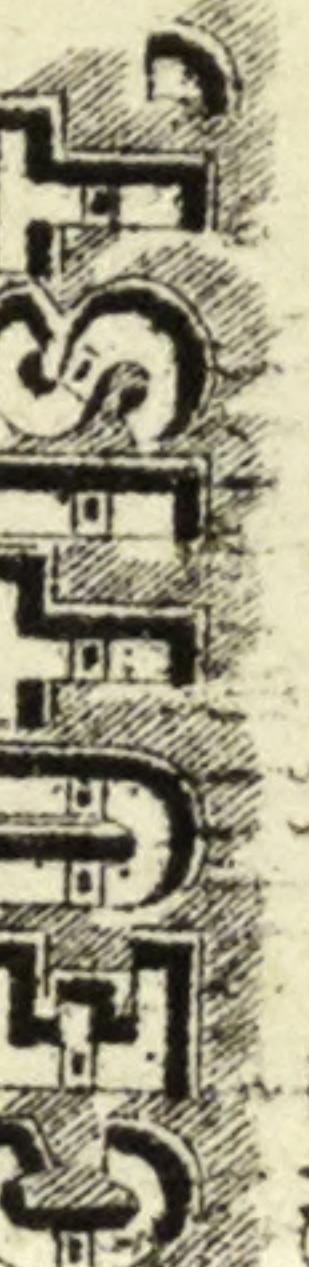
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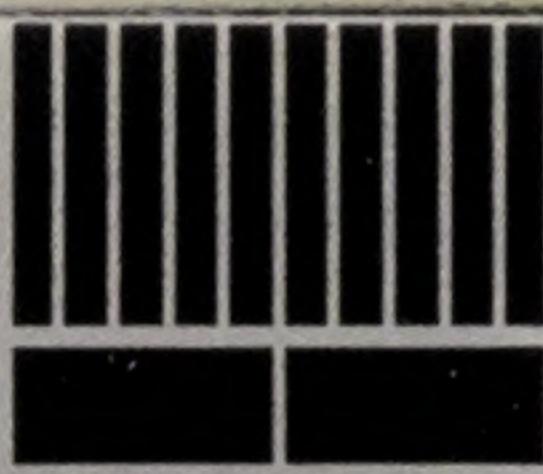
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St. Louis, Mo.



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Leeds:

1. *Desmodium*: sub. undulat. nigr.  
(crys. glab.) *Callicusis*

2. stem. nigr. ovat. sublaev. ciner.  
(crys.) *Decodon* Hugel

3. stem. *Leiosperma* 1760

sem. undulat. nigr. fl. glomerulata  
(india et aethiop.)

*glomeruliflora*

a. *leiosperma*  
b. *caesioperme*

fl. cyathulosa

*cyathuliflora*

a. *leiosperma*  
b. *caesioperme*

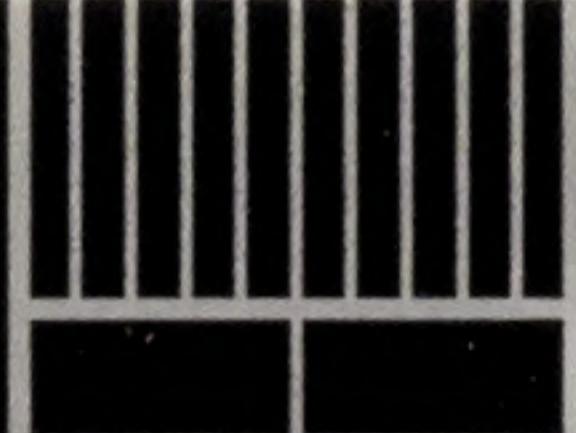
1. Fern. undula pallid.

*mitrantha*

2. *linaea*

a. *leiosperma*

b. *caesioperme*



0 1

2

3

4

5

6

7

8

9

10

cm

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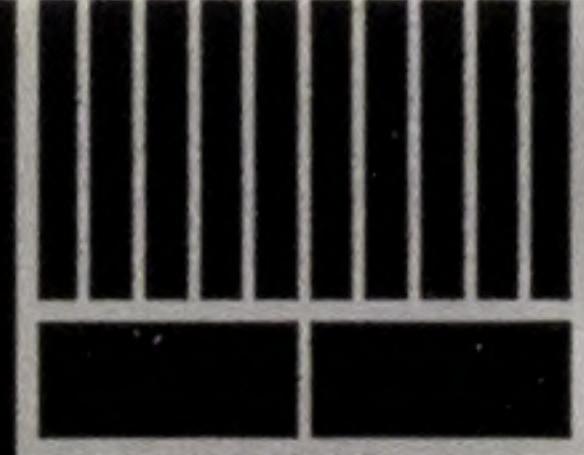


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~~edmonstonei (nigr)~~  
~~leiosperma~~  
~~Lasiosperma~~  
~~Microseris (carnea)~~  
~~Leiosperma~~  
~~Lasiosperma~~



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cm

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